

REMARKS

The Office Action mailed on May 18, 2005 and the cited art have been reviewed. Claims 1, 4-5, 9-10, 12, 15, 17, 22, 26, 28, 30, and 32-34 are currently amended and claims 3, 6, 11, 14, 18, 23, 27, and 29 have been canceled. Claims 1-2, 4-5, 7-10, 12-13, 15-17, 19-22, 24-26, 28, 30-34 are pending in this application.

Objections to Drawings

The drawings were objected to under 37 CFR 1.83(a) as not showing every feature of the invention specified in the claims. The Office Action states:

- a. Based on the specifications, the processor can be a component of or coupled to the PLL. (Page 4, paragraph [0042], lines 1-2) The claims recite that the processor is coupled to the oscillator, but Fig. 2 does not show that the processor is coupled to the oscillator.
- b. The specifications also state that the processor analyzes the output from the low pass filter and temperature sensor. (Page 5, paragraph [0051], lines 1-2) Inputs from the LPF and temperature sensor to the processor are not shown in Fig. 2.
- c. The specifications states that the processor produces a holdover control signal to the frequency synthesizer in the oscillator. (Page 5, paragraph [0046], lines 1-4) In Fig. 2, the processor produces an output signal to the PLL but does not show the frequency synthesizer in the oscillator receiving information from the processor.

No new matter should be entered.

Office Action, paragraph 1.

Applicant respectfully traverses these objections. 37 CFR 1.83(a) states:

The drawing in a nonprovisional application must show every feature of the invention specified in the claims. However, conventional features disclosed in the description and claims, where their detailed illustration is not essential for a proper understanding of the invention, should be illustrated in the drawing in the form of a graphical drawing symbol or a labeled representation (e.g., a labeled rectangular box).

Applicant respectfully submits that a coupling between the processor 250 and the components of the PLL 200 is a conventional feature where detailed illustration is not essential for a proper understanding of the invention and, as a result, such coupling is shown in FIG. 2 using a graphical drawing symbol for a bus-like coupling. Therefore, it is respectfully submitted that FIG. 2 complies with 37 CFR 1.83(a) and the Applicant respectfully requests that these objections be withdrawn.

Allowable Subject Matter

Claims 6, 7, 11, 14, 16, 18-20, 23, 27, 29 were objected to as being dependent upon a rejected base claim, but were indicated to be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

In order to expedite prosecution, claim 5 has been amended to incorporate language previously set forth in claim 6, which has been canceled.

Claims 7 and 8 depend from claim 5.

In order to expedite prosecution, claim 10 has been amended to incorporate language previously set forth in claim 11, which has been canceled.

In order to expedite prosecution, claim 12 has been amended to incorporate language previously set forth in claim 14, which has been canceled. Claim 13 depends from claim 12.

Claim 16 was indicated as allowable; however, claim 16 is already set forth in independent form.

In order to expedite prosecution, claim 17 has been amended to incorporate language previously set forth in claim 18, which has been canceled. Claims 19 – 21 ultimately depend from claim 17.

In order to expedite prosecution, claim 22 has been amended to incorporate language previously set forth in claim 23, which has been canceled. Claims 24-25 ultimately depend from claim 22.

In order to expedite prosecution, claim 26 has been amended to incorporate language previously set forth in claim 27, which has been canceled.

In order to expedite prosecution, claim 28 has been amended to incorporate language previously set forth in claim 29, which has been canceled.

In order to expedite prosecution, claim 1 has been amended to incorporate the language previously set forth in claim 3, which has been cancelled. Applicant asserts that this amendment renders claim 1 allowable for similar reasons as claim 6. Claim 2 depends from claim 1.

In order to expedite prosecution, claims 4 and 15 have been amended to incorporate language similar to the language added to claim 1.

In order to expedite prosecution, claim 9 have been amended to incorporate language similar to the language added to claim 6.

In order to expedite prosecution, claims 30, 32-34 have been amended to incorporate language similar to the language previously set forth in claim 29. Claim 31 depends from claim 30.

Accordingly, Applicant respectfully submits that pending claims 1-2, 4-5, 7-10, 12-13, 15-17, 19-22, 24-26, 28, 30-34 are in condition for allowance.

Rejections Under 35 U.S.C. § 103

Claims 1-3 were rejected under 35 USC § 103(a) as being unpatentable over Ogura (U.S. Patent No. 6,542,039) in view of Irwin (U.S. Patent No. 6,065,140).

Claims 4, 5, 8, and 9 were rejected under 35 USC § 103(a) as being unpatentable over Ogura in view of Irwin and further in view of Wesolowski (U.S. Patent No. 6,356,156)

Claims 10, 12, 13, and 15 were rejected under 35 USC § 103(a) as being unpatentable over Ogura in view of Irwin and further in view of Matsuoka (U.S. Patent No. 5,555,247).

Claims 17 and 21 were rejected under 35 USC § 103(a) as being unpatentable over Ogura (U.S. Patent No. 6,542,039) in view of Irwin (U.S. Patent No. 6,065,140)

Claims 22, 24 and 25 were rejected under 35 USC § 103(a) as being unpatentable over Ogura in view of Irwin and further in view of Wesolowski.

Claims 26, 28, and 30-34 were rejected under 35 USC § 103(a) as being unpatentable over Ogura in view of Irwin.

Applicant respectfully submits that the amendments described above render these rejections moot.

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Title: DIGITAL PLL WITH CONDITIONAL HOLDOVER

CONCLUSION

Applicant respectfully submits that claims 1-2, 4-5, 7-10, 12-13, 15-17, 19-22, 24-26, 28, 30-34 are in condition for allowance and notification to that effect is earnestly requested. If necessary, please charge any additional fees or credit overpayments to Deposit Account No. 502432.

If the Examiner has any questions or concerns regarding this application, please contact the undersigned at (612) 455-1681.

Respectfully submitted,

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